

Received 820714
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CRUISE REPORT

#89

1. SHIP NAME - R/V BELLOWS
2. CRUISE NO/LEG - Bellows-89-A and Bellows-89-B
3. PARENT PROJECT - West Florida Shelf
4. FUNDING AGENCY - S.I.R.
5. FUNDING AMOUNT - ~\$20,000
6. CONTRACT NO - N/A
7. CONTRACT START/END - N/A
8. AREA OF OPERATION - Inner Shelf and Outer Keys
9. DATE - May 24-June 6, 1982
10. CHIEF SCIENTIST - Charles W. Holmes
11. SCIENTIFIC STAFF

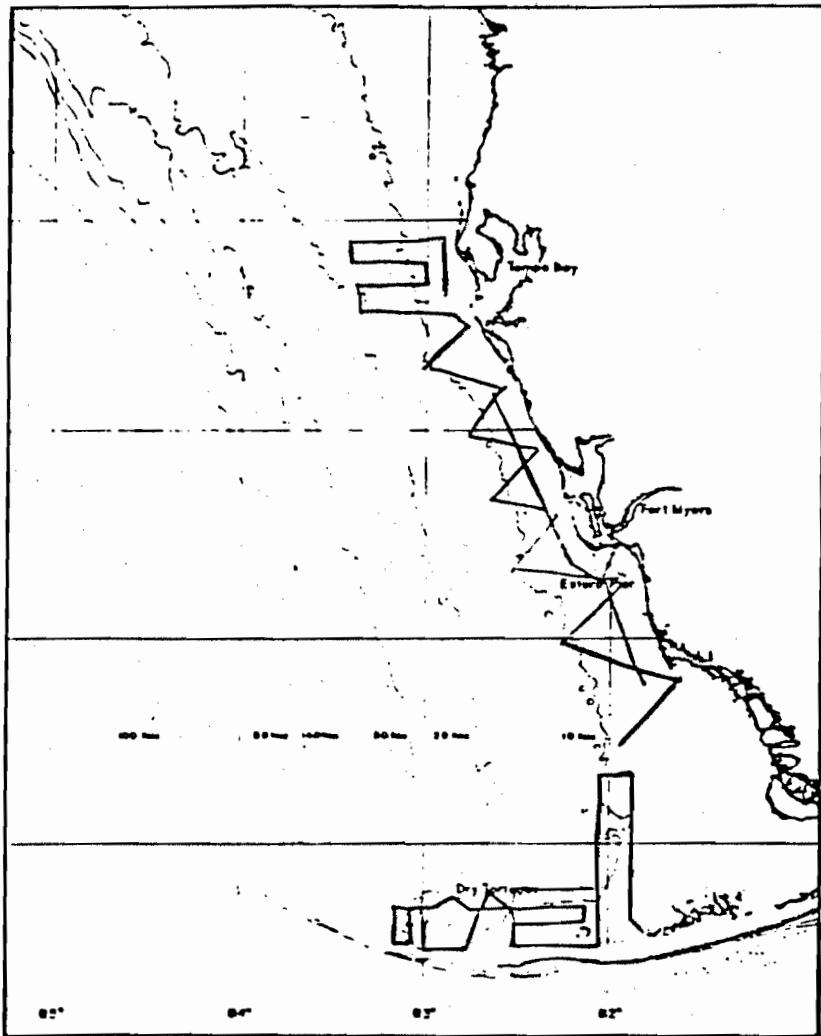
Leg A - Larry Doyle - U.S.F.
Tampa-Key West Greg Brooks - U.S.F.
 Steve Walker - U.S.F.
 David Martin - U.S.F.
 Lee Kump - U.S.F.
 Rente Berstein - U.S.F.
 Jean Hubert - U.S.F.

Leg B - Gene Shinn - USGS
Key West-Tampa Dan Robbins - USGS
 Harold Hudson - USGS
 Barbara Lidz - USGS
 Becky Westover - USGS
 Jim McFarlen - USGS
 Van Mount - USGS

12. PURPOSE OF THE CRUISE: Leg A - To investigate the nature and extent of the quartz sand patch and phosphate enrichment along the Western Margin of the Florida peninsula. Leg B - To investigate the nature and development of the Southern Bank that extends west of the Key West region.
13. NAVIGATION - LORAN C
14. EQUIPMENT USED - ORE Boomer
 EGG Uniboom
 Under Way Sampler
 Dokken Vibra Corer
 SCUBA Sampling Techniques

15. TABULATION OF DATA

11-days at sea
1000 km - Leg A Boomer Profiles
550 km - Leg B Boomer Profiles
115 - Underway Samples
20 - SCUBA Samples
1 - Vibra Core



BELLOWS SF

NOAA FORM 24-23 (1-76)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ENVIRONMENTAL DATA SERVICE NATIONAL OCEANOGRAPHIC DATA CENTER		A00 DATA CENTER									
OCEANOGRAPHY - GENERAL CRUISE INVENTORY (ROSCOP - II)				A40 REFERENCE NUMBER									
A01 EXPEDITION/PROJECT				YES	NO								
A11 CRUISE NUMBER OR NAME Bellow - 89A & Bellows 89B		A91 Declared national program?		X									
A02 SHIP OR PLATFORM R/V Bellows		A81 Exchange restricted?		X									
A12 PLATFORM TYPE		A92 Co-operative program?		X	A72 NAME								
A03 COUNTRY United States		A04 ORGANIZATION U.S. Geological Survey		A82 Co-ordinated internationally? Charles W. Holmes									
A06 NAME AND ADDRESSES OF ORGANIZATIONS AND PERSONS WHOM TO QUERY		FINAL DISPOSITION OF DATA											
A1 Ray Martin		A2											
B1 P.O. Box 6732		B2											
C1 Corpus Christi, Texas 78411		C2											
D1		D2											
E1		E2											
DATE	DAY	MONTH	YEAR	A08 GENERAL OCEAN AREAS									
A07 FROM	2	4	05	8	2	Inner Shelf and Outer Keys							
A17 TO	0	3	06	8	2	A09 TYPE(S) OF MARINE ZONE(S) 07							
GEOGRAPHIC AREA <i>If all data were collected at a fixed station, fill in the co-ordinates</i>				A10 LATITUDE		A20 LONGITUDE							
				°	'	"	N/S	°	'	"	E/W		
A15 FEDERAL SUPPORT													
A25 REMARKS													
Data acquired: Approx. 1000 Km. - Leg A Boomer profiles 500 Km. - Leg B Boomer profiles 115 - Underway samples 20 -- SCUBA samples 1 - Vibra Core													
DISCIPLINE AND TYPE OF MEASUREMENTS		Index 10° x 10°				INDEX 1° x 1°	DISCIPLINE AND TYPE OF MEASUREMENTS		Index 10° x 10°				INDEX 1° x 1°
		Qc	L	G	G				Qc	L	G	G	
A	G02	B	7	208			A	B					
A	G04	B	7	208			A	B					
A	G25	B	7	208			A	B					
A		B					A	B					
A		B					A	B					
A		B					A	B					
A		B					A	B					

G - GEOLOGY GEOPHYSICS

GL MEASUREMENTS MADE AT A SPECIFIC LOCATION				G - GEOLOGY GEOPHYSICS (Continued)		NUMBER	FORMAT
				GS TYPES OF STUDIES			
G01 Dredge				G31 Physical analysis of sediments			
G02 Grab		115		G32 Chemical analysis of sediments			
G03 Core-rock (no. of cores)				G33 Paleothermy			
G04 Core-soft bottom (no. of cores)		1		G34 Paleomagnetism and rock magnetism			
G05 Sampling by divers				G35 Paleontology			
G06 Sampling by submersible				G36 Geothermy			
G07 Drilling				G37 Geochronology			
G08 Bottom photography				G38 Mineral and fossil resources			
G09 Sea floor temperature ($\leq 1\text{ m}$ from bottom)				G39 Littoral zone studies			
G10 Acoustical properties of the sea floor				G90 Other measurements			
G11 Engineering properties of the sea floor				D - DYNAMICS			
G12 Magnetic properties of the sea floor				D01 Current meters (no. of stat.)			
G13 Gravimetric properties of the sea floor				D02 Current meters (Average duration of measurement days)			
G14 Radioactivity measurements				D03 Currents measured from ship drift			
G70 Other measurements				D04 GEK			
GU MEASUREMENTS UNDERWAY				D05 Drifters (number)			
G21 Multisite picture of sea floor (no. of nautical miles)				D06 Swallow floats (number)			
G22 Bathymetry-wide beam (no. of nautical miles)				D07 Drift cards (no. released)			
G23 Bathymetry-narrow beam (no. of nautical miles)				D08 Bottom drifters (no. released)			
G24 Side scan sonar (no. of nautical miles)				D09 Tidal observation (duration)			
G25 Seismic reflection (no. of nautical miles)	2000km.			D10 Sea and swell (no. of observations)			
G26 Seismic refraction (no. of nautical miles)				D90 Other measurements			
G27 Gravimetry				M - METEOROLOGY			
G28 Magnetism				M01 Upper air observations			
G29 Other measurements				M02 Incident radiation			
				M03 Air-sea interface studies			
				M04 Ice observations			
				M05 Occasional standard measurements			
				M06 Systematic standard measurements			
				M90 Other measurements			